

CLUSTAL W (1.8) multiple sequence alignment

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E coli (ACCESSION AE000407 U00096)-----MSVLQVLHIPDERLR----- 15
Arabidopsis (ACCESSION AC007591)  METLFRVSLRLLPVSAAVTCRSIRFPVSRPGSSHLLNRKLYNLPTSSSSS 50
                                   :*      *: :.*
E coli (ACCESSION AE000407 U00096)-----KVAKPVEEVNAETQR 30
Arabidopsis (ACCESSION AC007591)  LSTKAGWLLGLGEKKKKVDLPEIVASGDPVLHEKAREVDPGEIGSERIQK 100
                                   : ..* * . .**
E coli (ACCESSION AE000407 U00096) IVDDMFETMYAEEGIGLAATQVDIHQRIIVIDVSENRD----- 68
Arabidopsis (ACCESSION AC007591)  IIDDMIKVMRLAPGVGLAAPQIGVPLRIIVLEDTKKEYISYAPKEEILAQE 150
                                   *:***:.*      *:*:*:*:*:  *:*:*: :*:
E coli (ACCESSION AE000407 U00096)----ERLVLINPELLEKSGE-TGIEEGCLSIPEQRALVPRAEKVKIRALD 113
Arabidopsis (ACCESSION AC007591)  RRHFDLMVMVNPVLKERSNKKALFEFGCLSVDFRAAVERYLEVVTGYD 200
                                   : :*:** * *:*: : : *****:  ** * * :* : . *
E coli (ACCESSION AE000407 U00096) RDGKPFEEADGLLAICIQHEMDHLVVGKLFMDYLSPLKQQRIRQKVEKLD 163
Arabidopsis (ACCESSION AC007591)  RQGKRIEVNASGWQARILQHECDHLDGNLYVDKMVPRTFRTVDNLDLPLA 250
                                   *:* * :*:.* * :*** ** * :*: : * . : : : *
E coli (ACCESSION AE000407 U00096) RLKARA--- 169
Arabidopsis (ACCESSION AC007591)  EGCPKLGPO 259
                                   . .

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REFERENCE

Thompson J.D., Higgins D.G., Gibson T.J.;
 "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment
 through sequence weighting, position-specific gap penalties and weight matrix choice.";
 Nucleic Acids Res. 22:4673-4680 (1994).

ClustalW WWW Service at the European Bioinformatics Institute
<http://www2.ebi.ac.uk/clustalw>
 Rodrigo Lopez, Services Programme

Andrew Lloyd

The ClustalWWW server at the EBI
 embnet.news volume 4.2 1997
http://www2.ebi.ac.uk/embnet.news/vol4_3/clustalw1.html

FIGURE 1A

AtDEF (AC007591.2)	LSTKAGWLLGLGEKKKKVDLPEIVASGDPVLHEKAREVDPGEIGSERIQKIIDDMIKVMR	60
Chlamydia (AE001687.1)	-----MIRRLYYGSPILRKKS---SPIAEITDEIRNLVSDMCDTME	39
	: .: *.*:*:*: .*	:*:*:*:** ..*
AtDEF (AC007591.2)	LAPGVGLAAPQIGVPLRIIVLEDTKEYISYAPKEEILAQERRHFDLMVMVNPVLKERSNK	120
Chlamydia (AE001687.1)	AHRGVGLAAPQVGKQVSLFVMCVDRETE---DGELIFSESPR---VFINPVLSDPSET	91
	*****:* : :*: :*	. *: .*
AtDEF (AC007591.2)	KALFFEGCLSVDGFRAAVERYLEVVTGYDRQKRIEVNASGWQARILQHECDHLDGNLY	180
Chlamydia (AE001687.1)	PIIGKEGCLSIPGLRGEVFRPQKITVTAMDNLNGKIFTEHLEGFTARIIMHETDHLNGVLY	151
	: *****: *:*. * *	: :*. * **: : .*: ****: ** ***: * *
AtDEF (AC007591.2)	VDKMVP--RTFRTVDNLDLPLAEGCPKLGPO----	209
Chlamydia (AE001687.1)	IDLMEEPKDPKKFKASLEKIKRRYNTHLSKEELVS	186
	:* * . : .*: . .*: :	

FIGURE 1B

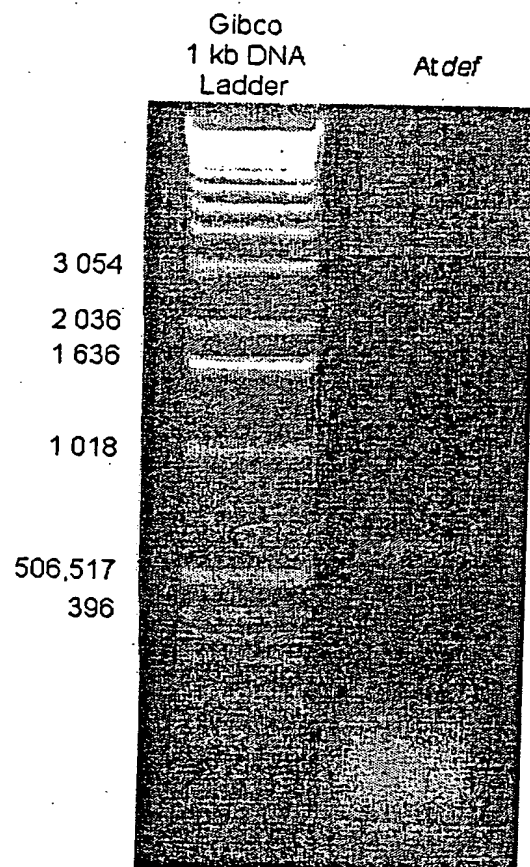


FIGURE 2

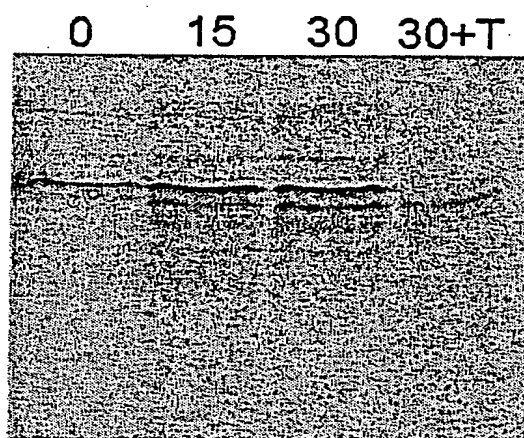


FIGURE 3

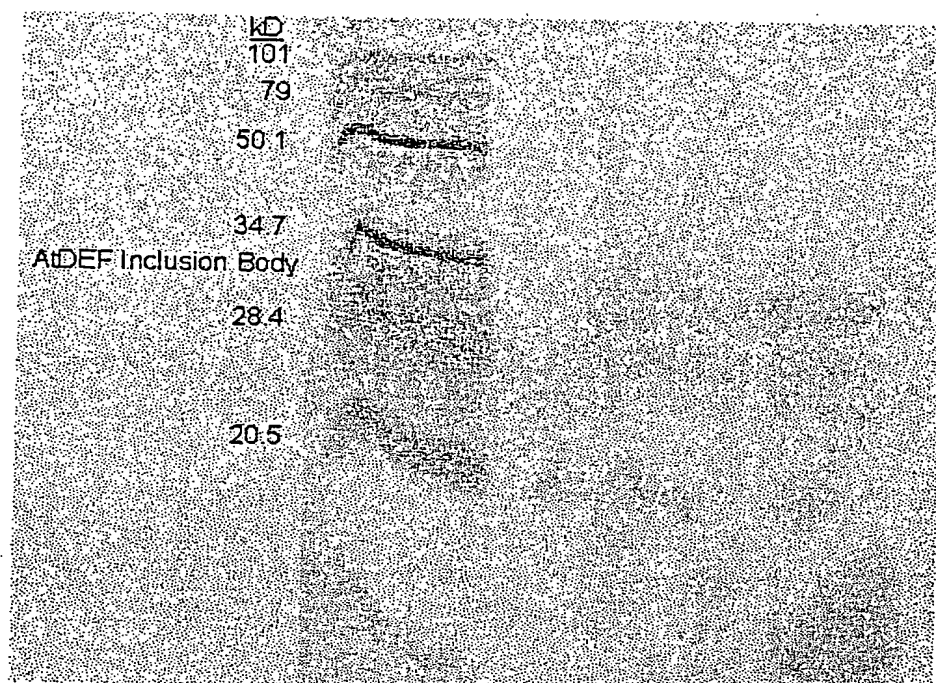


FIGURE 4



FIGURE 5

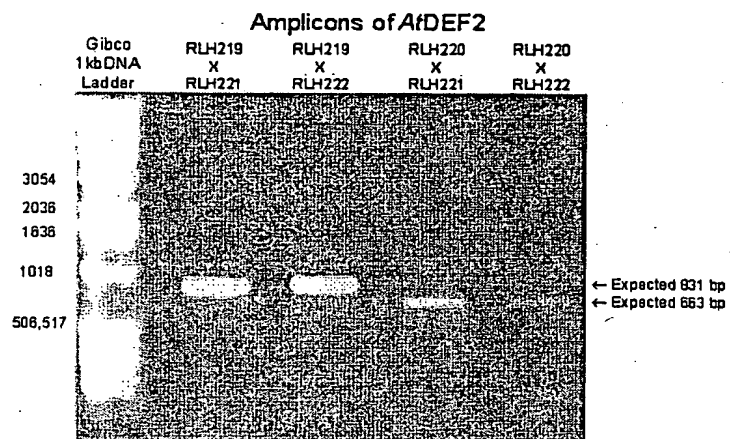


FIGURE 6

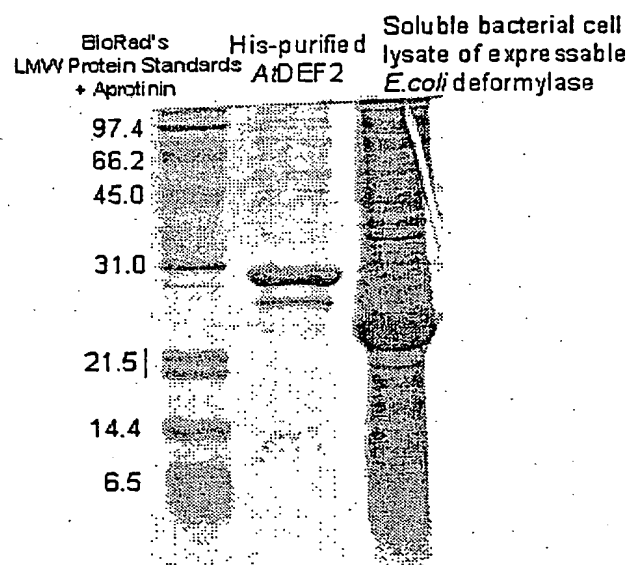


FIGURE 7

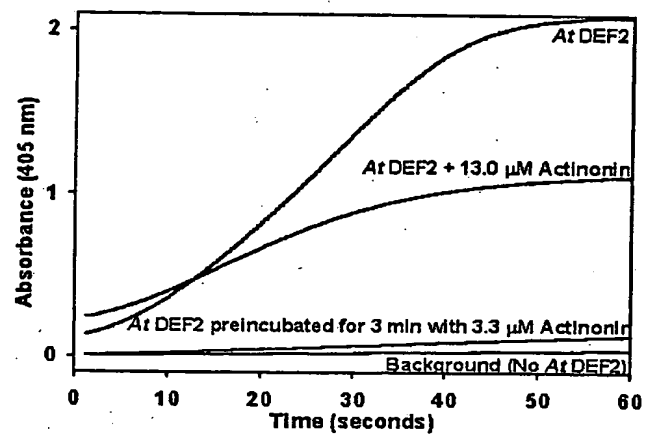


FIGURE 8